

# UNIVERSITY OF YORK

## UNDERGRADUATE PROGRAMME SPECIFICATION

<b>This document applies to students who commenced the programme(s) in:</b>	September 2017				
<b>Awarding institution</b>	<b>Teaching institution</b>				
University of York	University of York				
<b>Department(s)</b>					
Biology and HYMS					
<b>Award(s) and programme title(s)</b>			<b>Level of qualification</b>		
BSc (Hons) in Biomedical Sciences			Level 6		
BSc (Hons) in Biomedical Sciences with a Year in Industry					
BSc (Hons) in Biomedical Sciences with a Year in Europe					
M.Biomed.Sci. (Hons) in Biomedical Sciences			Level 7		
M.Biomed.Sci. (Hons) in Biomedical Sciences with a Year in Europe					
M.Biomed.Sci. (Hons) in Biomedical Sciences with a Year in Industry					
<b>Interim awards available</b>					
Certificate of Higher Education (Level 4/Certificate)			Generic		
Diploma of Higher Education (Level 5/Intermediate)			Generic		
BSc (Hons) (Level 6/Higher)					
<b>UCAS code</b>					
C900 BSc (Hons) in Biomedical Sciences					
C901 BSc (Hons) in Biomedical Sciences with a Year in Industry					
C902 BSc (Hons) in Biomedical Sciences with a Year in Europe					
C903 M.Biomed.Sci. (Hons) in Biomedical Sciences					
C904 M.Biomed.Sci. (Hons) in Biomedical Sciences with a Year in Industry					
C905 M.Biomed.Sci. (Hons) in Biomedical Sciences with a Year in Europe					
<b>Admissions criteria</b>					
Biology at A2 and Chemistry to at least AS. Preference will be given to applicants with Chemistry A2 but with Chemistry AS, a second science to A2 is required, preferably Maths or Physics.					
Typical offer AAB/AAA (BSc programmes) / AAA (M.Biomed.Sci. programmes)					
<b>Length and status of the programme(s) and mode(s) of study</b>					
Programme	Length (years) and status (full-time/part-time)	Start dates/months (if applicable – for programmes that have multiple intakes or start dates that differ from the usual academic year)	Mode		
			Face-to-face,	Distance learning	Other

			<b>campus-based</b>		
BSc in Biomedical Sciences	3 years full-time	Usual academic year	Yes	No	No
BSc in Biomedical Sciences - with a Year in Europe	4 years full-time	Usual academic year	Yes	No	No
BSc in Biomedical Sciences - with a Year in Industry	4 years full-time	Usual academic year	Yes	No	No
M. Biomed.Sci. in Biomedical Sciences	4 years full-time	Usual academic year	Yes	No	No
M. Biomed.Sci. in Biomedical Sciences - with a Year in Europe	5 years full-time	Usual academic year	Yes	No	No
M. Biomed.Sci. in Biomedical Sciences - with a Year in Industry	5 years full-time	Usual academic year	Yes	No	No
<b>Language of study</b>		English			
<b>Programme accreditation by Professional, Statutory or Regulatory Bodies (if applicable)</b>					
N/A					
<b>Educational aims of the programme</b>					
<p>In general the aims of the BSc are as follows:</p> <p>The primary aim of the programme is to develop the intellectual and practical skills of our students in biomedical sciences with a clear and distinct focus on health and disease, with the intention that they will have a lasting enthusiasm for the subject. We intend to provide a research-inspired experience which will enable students to be able to engage with cutting-edge research during their education here. The programme will also provide the opportunity for students to undertake a Year in Industry or Year in Europe placement.</p> <p>We aim to produce graduates who are numerate and literate problem solvers, and who are capable of contributing constructively towards dealing with important issues in biomedical sciences. We aim to develop in our students a range of academic, personal and professional skills to equip them for employment in a wide range of biomedical and closely related professions but also to succeed in employment in non-related professions. We aim to provide the skills and knowledge set to attain entry into competitive postgraduate degree programmes in biomedical and closely related research. Graduates from all our programmes will have carried out original scientific research as part of their programme.</p> <p>In addition, the M.Biomed.Sci. programme aims are as follows:</p> <p>We aim to produce graduates from our integrated masters degrees with a comprehensive understanding and critical awareness of contemporary bioscience. These students will have a deep appreciation of what is involved in undertaking scientific research and have the capacity to deal with complex problems systematically and creatively and be able to demonstrate self-</p>					

direction in tackling complex problems. We will enable this by providing more in depth and specialised training in techniques and skills teaching, and by providing a more substantial opportunity to carry out original research work.

**Intended learning outcomes for the programme – and how the programme enables students to achieve and demonstrate the intended learning outcomes**

*This programme provides opportunities for students to develop and demonstrate knowledge and understanding qualities, skills and other attributes in the following areas:*

*The following teaching, learning and assessment methods enable students to achieve and to demonstrate the programme learning outcomes:*

**A: Knowledge and understanding**

BSc:

1. the origins and development of Biomedical Sciences as a discipline
2. the fundamental subjects underpinning Biomedical Sciences: Biochemistry, Genetics, Cell Biology, Molecular Biology, Physiology, Pharmacology, Health Sciences, Immunology and Infectious Disease, Neuroscience and Psychology
3. the relationship of Biomedical Sciences to affiliated fields of study (i.e. Medicinal Chemistry, clinical practice).
4. how the above subjects impact on issues of commercial or social importance
5. basic experimental techniques and approaches used in biomedical research, including areas of specialisation
6. statistics and other methods necessary for quantifying, analysing and interpreting primary data
7. in-depth subject knowledge, including cutting edge research and key scientific questions in the student's specialist fields of interest
8. the ethical and social context in which biomedical science research and its practical applications exists

In addition for the M.Biomed.Sci.:

9. a comprehensive understanding of the advanced techniques relevant to contemporary biomedical sciences
10. a more thorough in-depth knowledge about research topic areas of particular interest, through an extended research project

Learning/teaching methods and strategies (relating to numbered outcomes):

- lectures (1-9)
- practical classes (5,6,9)
- tutorials (1-9)
- workshops (1-9)
- independent reading (1-10)
- seminars (4, 7-8)
- journal clubs (2-8)
- use of the VLE (1-9)
- Year in Industry/Europe placement (3-8)

Types/methods of assessment (relating to numbered outcomes):

- closed examinations (1-8)
- assessed practicals (5-6, 10)
- openly assessed essay (2-9)
- research project/year in industry report (1-10)
- formative VLE tests and tutorials (1-7)

**B: (i) Skills - discipline related**

BSc:

1. appreciate the quantitative nature of evidence and have a critical approach towards that evidence
2. read, understand and analyse experimental data, interpretation and conclusions as presented in

Learning/teaching methods and strategies (relating to numbered outcomes):

- lectures (1, 2, 5)
- tutorials (1-3, 5-10)

<p>primary research papers in the field of Biomedical Sciences.</p> <ol style="list-style-type: none"> <li>3. correctly cite the work of others using a consistently formatted reference list</li> <li>4. give evidence of basic competency in experimental laboratory skills that are prevalent in Biomedical sciences research (i.e. PCR, tissue culture etc)</li> <li>5. provide evidence of competence in experimental design and planning, and data collection, analysis and interpretation in an area of specialisation</li> <li>6. identify and apply appropriate statistical and numerical techniques to allow evaluation of primary experimental data, recognising the potential and limitations of such techniques</li> <li>7. be competent in the use of a relevant scientific software packages and information technology.</li> <li>8. communicate effectively (written, oral and using visual means) discipline specific knowledge and understanding</li> </ol> <p>In addition, for the M.Biomed.Sci.:</p> <ol style="list-style-type: none"> <li>9. critically evaluate primary research papers, and make professional presentations about these</li> <li>10. be able to develop hypotheses, plan, conduct laboratory / field investigations based on scientific questions, and produce concise and detailed reports as part of an extended scientific project</li> </ol>	<ul style="list-style-type: none"> <li>• skills modules (1, 3-10)</li> <li>• independent learning (1,2,6,7,9-10)</li> <li>• practical classes (1,4-6,10)</li> <li>• research project (1-10)</li> </ul> <p>Types/methods of assessment (relating to numbered outcomes):</p> <p>relating to numbered outcomes):</p> <ul style="list-style-type: none"> <li>• closed examinations (1, 2, 5, 6, 8)</li> <li>• research project write-up (1-10)</li> <li>• openly assessed essay (1-3,7,8-9)</li> <li>• assessed practicals (1,4-7,10)</li> <li>• poster presentation (1-8)</li> <li>• Journal paper critique and presentation (2,8-9)</li> </ul>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**B: (ii) Skills - transferable**

<p>BSc:</p> <ol style="list-style-type: none"> <li>1. think rigorously and recognise and question assumptions</li> <li>2. critically appraise one's own opinions and those of others</li> <li>3. produce logical and structured arguments supported by relevant evidence</li> <li>4. present oral presentations for different audiences</li> <li>5. prepare effective written communications for different readerships</li> <li>6. make effective and appropriate forms of visual presentation (graphics, photographs, spreadsheets)</li> <li>7. work in a small group/team towards a common goal</li> <li>8. plan, design, and execute a programme of primary research/project, working independently</li> <li>9. solve numerical problems</li> <li>10. make effective and appropriate use of standard software packages, such as: word processors, databases, and spreadsheets</li> <li>11. make critical and effective use of information retrieval skills using paper-based and online resources</li> </ol>	<p>Learning/teaching methods and strategies (relating to numbered outcomes):</p> <ul style="list-style-type: none"> <li>• tutorials (1-7, 10-11, 13-16)</li> <li>• group practical project (1, 2, 5-7, 9-15)</li> <li>• practical classes (1,5-7, 9-15)</li> <li>• independent learning (1-3, 9, 11-12, 14-16)</li> <li>• lectures (1)</li> <li>• workshops (1, 2, 4, 10)</li> <li>• research project (1-16)</li> </ul> <p>Types/methods of assessment (relating to numbered outcomes):</p> <ul style="list-style-type: none"> <li>• closed examinations (1,5,6)</li> <li>• openly assessed essay (1, 2, 5, 6, 10, 11, 13)</li> <li>• oral examination of research project and masters level modules (4, 6, 14-16)</li> <li>• research project report (1-6, 8-11,</li> </ul>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p>12. appreciate the importance of safety procedures and responsibilities (both personal and with regard to others)</p> <p>13. apply time management skills to meet deadlines</p> <p>In addition for the M.Biomed.Sci.:</p> <p>14. demonstrate self-direction, decision-making and originality in tackling problems</p> <p>15. solve complex numerical problems, and other problems that involve interpreting complex data sets. To present these problems and their solutions in a creative and systematic manner</p> <p>16. deliver oral and written presentations in a professional and effective manner</p>	<p>13-16)</p> <ul style="list-style-type: none"> <li>• assessed practicals (1-7, 10-11, 13)</li> <li>• poster design and presentation (4, 7, 9-11, 13)</li> <li>• journal paper critique and presentation (1-4, 6, 10, 11, 13, 14-16)</li> </ul>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**C: Experience and other attributes**

<p>Able to:</p> <ol style="list-style-type: none"> <li>1. develop a deep understanding and continued fascination with their chosen specialist area of biomedical science.</li> <li>2. display the confidence and flexibility to tackle new problems</li> <li>3. develop the skills necessary for self-managed lifelong learning</li> <li>4. identify and work towards targets for personal, academic and career development</li> </ol>	<p>Learning/teaching methods and strategies (relating to numbered outcomes):</p> <ul style="list-style-type: none"> <li>• lectures, practicals, tutorials, independent learning (1,2)</li> <li>• research project (1-3)</li> <li>• personal development planning (1-4)</li> <li>• Summer term careers fair (3,4)</li> <li>• VLE 'employability' tutorial (4)</li> </ul> <p>Types/methods of assessment (relating to numbered outcomes):</p> <ul style="list-style-type: none"> <li>• closed assessments (1,2)</li> <li>• openly assessed essay (1, 2)</li> <li>• research project write-up (1,2,3)</li> </ul>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Relevant Quality Assurance Agency benchmark statement(s) and other relevant external reference points (e.g. National Occupational Standards, or the requirements of Professional, Statutory or Regulatory bodies)**

QAA benchmark statement for Biosciences:

<http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/Biosciences07.pdf>

### University award regulations

To be eligible for an award of the University of York a student must undertake an approved programme of study, obtain a specified number of credits (at a specified level(s)), and meet any other requirements of the award as specified in the award requirements, programme regulations, and other University regulations (e.g. payment of fees). Credit will be awarded upon passing a module's assessment(s) but some credit may be awarded where failure has been compensated by achievement in other modules. The University's award and assessment regulations specify the University's marking scheme, and rules governing progression (including rules for compensation), reassessment, award requirements and degree classification. The award and assessment regulations apply to all programmes: any exceptions that that relate to this programme are approved by University Teaching Committee and are recorded at the end of this document.

### Departmental policies on assessment and feedback

Detailed information on assessment (including grade descriptors, marking procedures, word counts etc.) is available in the written statement of assessment which applies to this programme and the relevant module descriptions. These are available in the student handbook and on the Department's website:

<https://www.york.ac.uk/biology/intranet/currenttaughtstudents/examinationassessmentandfeedback/>

Information on formative and summative feedback to students on their work is available in the written statement on feedback to students which applies to this programme and the relevant module descriptions. These are available in the student handbook and on the Department's website:

<https://www.york.ac.uk/biology/intranet/currenttaughtstudents/examinationassessmentandfeedback/>

**Are electives permitted?**

Students may take up to 20 credits of elective modules in stages 2 and 3.

**Can a Languages For All (LFA) module be taken ab initio (i.e. beginner level) in Stage 1?**

No

**Diagrammatic representation of the programme structure by stage, showing the distribution and credit value of core and option modules**

**Stage 1**

Autumn Term	Spring Term	Summer Term
Introduction to Biomedical Sciences (30 credits, core)		
Molecular Biology and Biochemistry of the Cell (20 credits, core)		
Laboratory and professional skills for Bioscientists (20 credits, core)		
Tutorials (10 credits, core)		
Microbiology (10 credits, core)	Cell and Developmental Biology (10 credits, core)	
Genetics (10 credits, core)	Genetics and Evolution (10 credits, core)	

**Stage 2**

Autumn Term	Spring Term	Summer Term
Understanding Health and Disease (20 credits, core)		
Cell biology (20 credits, core)		
Immunology and infection (20 credits, core)		
Laboratory and professional skills for Bioscientists (20 credits, core)		
Pharmacology (10 credits, core)		
Tutorials (10 credits, core)		
20 credits of options to be selected from: Molecular biology, biotechnology and bioinformatics (20 credits) Neuroscience (20 credits) Molecular genetics and development (20 credits)		

**Stage 2, Year 2 - Optional Year in Industry or Year in Europe**

Autumn Term	Spring Term	Summer Term
Completion of Year in Industry/Europe (80 credits, core)		
Project report and supervisor feedback (40 credits, core)		

**Stage 3 BSc**

Autumn Term	Spring Term	Summer Term
Research Project (40 credits, core)		
40 credits to be selected from the following 20 credit core option modules: Advanced topics in cell biology Advanced topics in neuroscience Advanced topics in translational medicine, Cancer call and molecular biology Specialised topics in infection and immunity		
40 credits to be selected from the following 20 credit option modules: Advanced topics in biotechnology Advanced topics in microbiology Advanced topics in molecular biology Genes and development Human and medical genetics Molecular recognition		

**Stage 3 M. Biomed. Sci**

<b>Autumn Term</b>	<b>Spring Term</b>	<b>Summer Term</b>
Research Project (20 credits, core)		
40 credits to be selected from the following 20 credit core option modules: Advanced topics in cell biology Advanced topics in neuroscience Advanced topics in translational medicine, Cancer call and molecular biology Specialised topics in infection and immunity		
60 credits to be selected from the following 20 credit option modules: Advanced topics in biotechnology Advanced topics in microbiology Advanced topics in molecular biology Genes and development Human and medical genetics Molecular recognition		

**Stage 4 M. Biomed. Sci**

<b>Autumn Term</b>	<b>Spring Term</b>	<b>Summer Term</b>
M level Research Project (80 credits, core)		
Critical analysis (20 credits, core)		
Data analysis (20 credits, core)		



## Overview of modules by stage

### Stage 1 (2017/18)

#### Core module table, 120 credits

Module title	Module code	Credit level <sup>1</sup>	Credit value <sup>2</sup>	Pre-requisites	Assessment rules <sup>3</sup>	Timing and format of main assessment SpT = Spring Term, Week 1; SuT = Summer Term, Weeks 5-7
Molecular biology and biochemistry	BIO00004C	4/C	20	none	none	Closed exam wk 1 SpT and 5/7 SuT
Cell and developmental biology	BIO00011C	4/C	10	none	none	Closed exam wks 5/7 SuT
Microbiology	BIO00010C	4/C	10	none	none	Closed exam wk 1 SpT
Introduction to Biomedical sciences	BIO00018C	4/C	30	none	none	Closed exam wk 1 SpT and 5/7 SuT, plus on-going coursework
Genetics	BIO00007C	4/C	10	none	none	Closed exam wk 1 SpT
Genetics and evolution	BIO00009C	4/C	10	none	none	Closed exam wks 5/7 SuT
Professional and laboratory skills for Bioscientists	BIO0017C	4/C	20	none	none	Practical report wk 10 AuT Practical report wk 5 SuT Presentation wk 7 SuT
Tutorials	BIO00019C	4/C	10	none	P/F	Essay AuT, SpT

*No optional modules in Stage 1*

<sup>1</sup> The **credit level** is an indication of the module's relative intellectual demand, complexity and depth of learning and of learner autonomy (Level 4/Certificate, Level 5/Intermediate, Level 6/Honours, Level 7/Masters)

<sup>2</sup> The **credit value** gives the notional workload for the module, where 1 credit corresponds to a notional workload of 10 hours (including contact hours, private study and assessment)

<sup>3</sup> **Special assessment rules** (requiring University Teaching Committee approval) P/F – the module marked on a pass/fail basis (NB pass/fail modules cannot be compensated) NC – the module cannot be compensated

NR – there is no reassessment opportunity for this module. It must be passed at the first attempt

**Stage 2 (2018/19)****Core modules, 100 credits**

Module title	Module code	Credit level	Credit value	Pre-requisites	Assessment rules	Timing and format of main assessment SpT =Spring Term, Week 1; SuT =Summer Term, Weeks 5-7
Cell biology	BIO00011I	5/I	20		N/A	Closed exam wks 5/7 SuT
Immunology and infection	BIO00050I	5/I	20	BIO00010C	N/A	Closed exam wks 5-7 SuT
Understanding health and disease	BIO00055I	5/I	20		none	Grant application wk 1 SpT Closed exam wks 5-7, SuT
Professional and laboratory skills for Bioscientists	BIO00058I	5/I	20	BIO00017C	none	Group poster wk 10 SpT Communication report wk 11 SpT Scientific report wk 2 SuT
Pharmacology	BIO00046I	5/I	10	none	none	Closed exam wk 5-7 SuT
Tutorials	BIO00057I	5/I	10	none	P/F	Essay AuT, SpT

**Option modules, 20 credits**

Module title	Module code	Credit level	Credit value	Pre-requisites	Assessment rules	Timing and format of main assessment SpT =Spring Term, Week 1; SuT = Summer Term, Weeks 5-7
Genes and genomes in populations and evolution	BIO00056I	5/I	20			Open problem assessment wk 10 AuT or wk 1/2 SpT Closed exam wks 5-7 SuT
Molecular biology, biotechnology and bioinformatics	BIO00051I	5/I	20		N/A	Closed exam wks 5/7 SuT
Molecular genetics and development	BIO00008I	5/I	20		N/A	Closed exam wks 5-7 SuT
Neuroscience	BIO00048I	5/I	20		N/A	Closed exam wk 1 5-7 SuT

**Optional Year in Industry (Stage 2, Year 3)**

Module title	Module code	Credit level	Credit value	Prerequisites	Assessment rules	Timing and format of main assessment
Completion of Year in Industry	BIO00024I	5/I	80	None	P/F, NR	
Completion of project report	BIO00025I	5/I	40	None	P/F, NR	

**Optional Year in Europe (Stage 2, Year 3)**

Module title	Module code	Credit level	Credit value	Prerequisites	Assessment rules	Timing and format of main assessment
Completion of Year in europe	BIO00024I	5/I	80	None	P/F, NR	
Completion of project europe	BIO00025I	5/I	40	None	P/F, NR	

### Stage 3, BSc (2019/20)

#### Core module table

Module title	Module code	Credit level	Credit value	Prerequisites	Assessment rules	Timing and format of main assessment
Research Project	TBA	6/H	40	None	NR <sup>4</sup> (for project (40%) and Directors report (5%))	Oral presentation wks 7-9 SpT Report submitted day 1 of SuT

### Stage 3 (M. Biomed. Sci.) (2019/20)

#### Core module table

Module title	Module code	Credit level	Credit value	Prerequisites	Assessment rules	Timing and format of main assessment
Research Project	TBA	6/H	20	None	NR <sup>5</sup> (for project (40%) and Directors report (5%))	Oral presentation wks 7-9 SpT Report submitted day 1 of SuT

<sup>4</sup> See Exceptions to University Award Regulations, below

<sup>5</sup> See Exceptions to University Award Regulations, below

**Option modules table:**

BSc students select 80 credits (4 modules) of optional modules, at least forty 40 credits of these (2 modules) must come from those indicated as OC (optional core).

For Integrated masters (MBioMedSci) students the research project (20 credits) is compulsory, you must select 100 credits (5 modules) of optional modules, at least forty 40 credits of these (2 modules) must come from those indicated as OC (optional core).

All taught modules are worth 20 credits

Module title	Module code	Credit level	Credit value	Prerequisites	Assessment rules	Timing and format of main assessment
<b>Optional core list – all students select minimum of 40 credits (2 modules):</b>						
Advanced topics in cell biology	TBA	6/H	20	BIO00011I BIO00051I	N/A	closed exam wks 5-7 SuT
Advanced topics in neuroscience	TBA	6/H	20	BIO00048I	N/A	Comprehension open paper released wk 1 SuT, submitted wk 5 SuT
Cancer cell and molecular biology	TBA	6/H	20		N/A	closed exam wks 5-7 SuT
Mechanisms to therapies	TBA	6/H	20	BIO00050I BIO00055I	N/A	Comprehension open paper released wk 1 SuT, submitted wk 5 SuT
Specialised topics in infection and immunity	TBA	6/H	20	BIO00049I	N/A	Open assessment released wk 1 SuT, submitted wk 5 SuT
<b>Optional list – BSc students can select 40 credits (2 modules), MBIomedSci can select 60 credits (3 modules)</b>						
Advanced topics in biotechnology	TBA	6/H	20	BIO00051I	N/A	closed exam wks 5-7 SuT
Advanced topics in microbiology	TBA	6/H	20		N/A	Comprehension open paper released wk 1 SuT, submitted wk 5 SuT
Advanced topics in molecular biology	TBA	6/H	20		N/A	closed exam wks 5-7 SuT

Genes and development	TBA	6/H	20	BIO00052I	N/A	Comprehension open paper released wk 1 SuT, submitted wk 5 SuT
Human and medical genetics	TBA	6/H	20	BIO00007C	N/A	closed exam wks 5-7 SuT
Molecular recognition	TBA	6/H	20	BIO00004C	N/A	closed exam wks 5-7 SuT

**Stage 4 (2020/21)**  
**Core module table**

Module title	Module code	Credit level	Credit value	Prerequisites	Assessment rules	Timing and format of main assessment
M level Research Project	BIO00057M	7/M	80		NR ( for Directors report 10%)	Project submission wk 2 SuT Poster wk 5 SuT
Critical analysis	BIO00056M	7/M	20			
Data analysis	BIO00058M	7/M	20			

### **Additional year variants e.g. year in Europe, year in industry**

Year in Europe. This is a full academic year taken at one of various Universities in mainland Europe, as part of the Erasmus scheme. The Year in Europe is assessed on a pass/fail basis, and does not contribute to the overall award. There is no re-assessment opportunity for the year in Europe.

Year in Industry. This is a full academic year taken as a placement in Industry (often in pharmaceutical/biotechnology companies, but also possibly at a research institute, such as the Sanger Centre, etc). The Year in Industry is assessed based on a written report, on a pass/fail basis, and does not contribute to the overall award. There is no re-assessment opportunity for the year in Industry.

### **Replacement year variants**

Students on all programmes may apply to spend Stage 2 on the University-wide North America / Asia / Australia student exchange programme. Acceptance onto the programme is on a competitive basis.

Marks from modules taken on replacement years count toward progression and classification.

### **Transfers out of or into the programme**

Students are free to move from BSc Biomedical Sciences to BSc Biology during term 1, or to BSc Genetics, BSc Molecular Cell Biology or BSc Biotechnology and Microbiology at any time during Stage 1. Students may move to M. Biomed. Sci. from BSc before the end of Stage 2 if they have a degree mark average of >55 %. Students on M. Biomed. Sci. will be able to transfer to BSc within the first two years of the programme, and will have to transfer to the BSc at the end of stage 2 if they have a degree average mark < 55 %.

Students on a programme with a Year in Industry who no longer wish to undertake the year away, or cannot find a place, or who fail the placement will be transferred to the equivalent programme without the placement year.

Students can transfer to the programme with a Year in Industry/Europe at any point up until the end of Stage 1.

<b>Exceptions to University Award Regulations approved by University Teaching Committee</b>	
<b>Exception</b>	<b>Date approved</b>
Exception sought for inadequate engagement during the project. i.e. if a student fails to engage with the research work they will be unable to produce a passing report, and cannot be re-assessed.	Approved by UTC for all BSc programmes (March 2013).
<b>Quality and Standards</b>	
<p>The University has a framework in place to ensure that the standards of its programmes are maintained, and the quality of the learning experience is enhanced.</p> <p>Quality assurance and enhancement processes include:</p> <ul style="list-style-type: none"> <li>• the academic oversight of programmes within departments by a Board of Studies, which includes student representation</li> <li>• the oversight of programmes by external examiners, who ensure that standards at the University of York are comparable with those elsewhere in the sector</li> <li>• annual monitoring and periodic review of programmes</li> <li>• the acquisition of feedback from students by departments, and via the National Student Survey.</li> </ul> <p>More information can be obtained from the Academic Support Office:  <a href="http://www.york.ac.uk/about/departments/support-and-admin/academic-support/staff/#quality">http://www.york.ac.uk/about/departments/support-and-admin/academic-support/staff/#quality</a></p>	
<b>Date on which this programme information was updated:</b>	20 December 2017
<b>Departmental web page:</b>	<a href="http://www.york.ac.uk/biology/">http://www.york.ac.uk/biology/</a>
<b>Please note</b>	

The information above provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided.

Detailed information on the learning outcomes, content, delivery and assessment of modules can be found in the module descriptions.

The University reserves the right to modify this overview in unforeseen circumstances, or where the process of academic development, based on feedback from staff, students, external examiners or professional bodies, requires a change to be made. Students will be notified of any substantive changes at the first available opportunity.